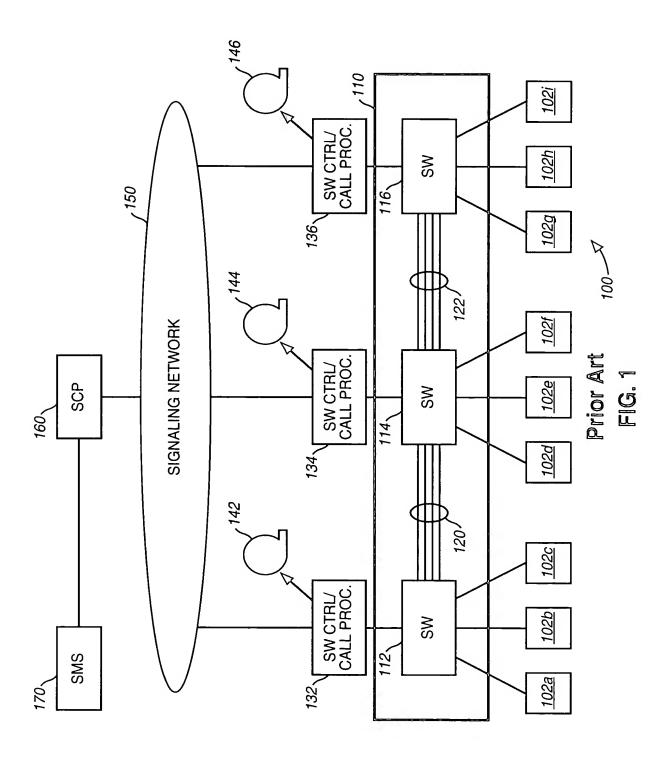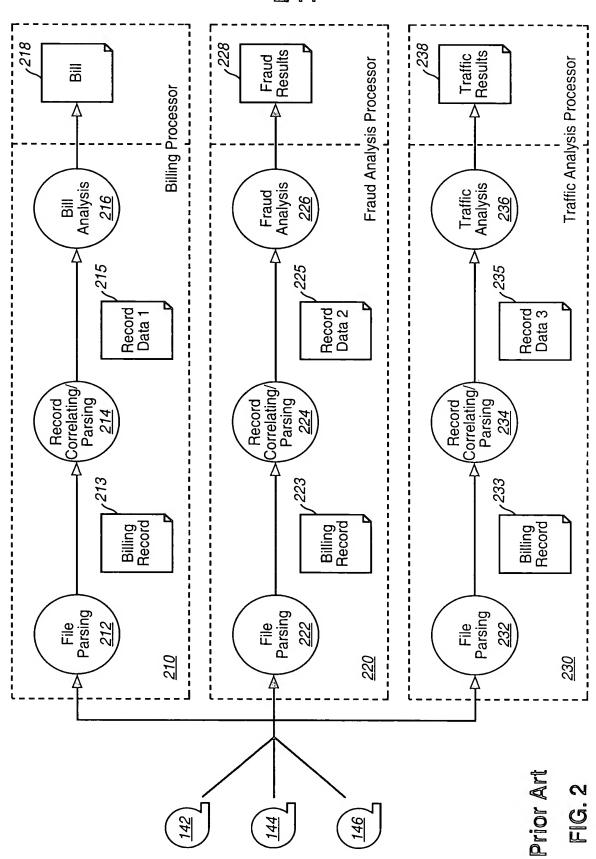Prior Art
FIG. 1

Prior Art
FIG. 2

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Prior Art

FIG. 3

FIG. 4

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```
510   <Beginning of File>

      File data        512
         File type identifier    514
         Length of file          516
         Location of entry points
520
      Context Data                                    522
         Source of the data (switch ID or call processor ID)         500
         Time range represented by the data
         Version of code   526              524
         Libraries required or other dependencies
530                                         528
532   Methods
         Class_One::method_one {...code...}
532
         Class_One::method_two {...code...}

         Class_Two::method_three {...code...}

         PhoneDevice::offhook(char*datetime) {...code...}

         PhoneDevice::dialed_digits(char*digitstring,char*datetime) {...code...}

         PhoneDevice::ring(char*datetime){...code...}

         ...


      Fast-indexing data structure (optional)
550
      Recorded data as executable
         Main()
         {
         phone1=PhoneDevice("2149367856","POTS");
         phone1.offhook("Jan 02 1997 03:00:05.3");
         phone1.dialed_digits("972 729 1000","Jan 2 1997 03:00:09.1");
         ...
         }

      <End of File>
```

FIG. 5

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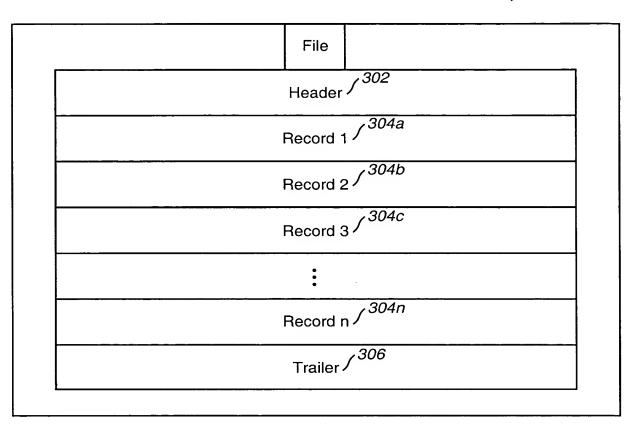Title: System, Method, and Apparatus for Sharing Common Capacity different...
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FIG. 6

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Inventors: Shah
Confirmation No.: Unassigned

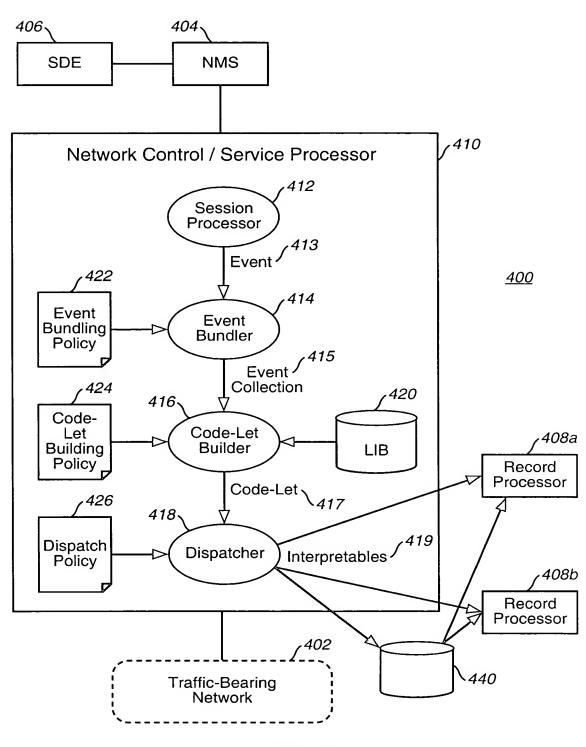Sheets of Drawings: 7 of 11

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Start - Event Received *702*

Event Means New Session? *704* — No / Yes

Begin New Session Event Collection *706*

Event Means End Of Session? *708* — Yes / No

Event Type Excluded By Filter? *710* — Yes / No

Add Event To Session Event Collection *712*

Done Processing One Event *714*

Conclude Session Event Collection *716*

Group Sessions By Type? *718* — No / Yes

Add Session To Cumulative Event Collection *720*

Add Session Event Collection To Group Event Collection *724*

Cum. Event Collection Meet Sending Criteria? *722* — Yes / No

Group Event Collection Meet Sending Criteria? *726* — Yes / No

Send Event Collection To Code-Let Builder *728*

FIG. 7

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Title: System, Method, and Apparatus for Sharing Common Capacit ifferent...
Inventors: Shah
Confirmation No.: Unassigned

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802 Start - Receive Event Collection

804 Code-Let Exist?

No → *806* Create Code-Let

Yes

808 Allow Multiple Collections Per Code-Let?

Yes → *812* Add Collection To Current Code-Let

814 Code-Let Meet Send Criteria?

No

Yes

No → *810* Make Single-Collection Code-Let

816 Build List of Runtime Dependencies

818 References Allowed?

Yes → *820* Add References For Runtime Functions Into Code-Let

No

822 Dependencies Remaining?

Yes → *824* Add Code Segments From Library

No

FIG. 8

826 Dependencies Remaining?

Yes → *828* Execute Code-Building Instructions (If Any)

No

830 Dependencies Remaining?

Yes → *832* Declare Error and Store Code_Let For Review

No

834 Send Code_Let To Dispatcher → *840* Done Processing One Event Collection

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Make Interpretable From Code-Let   _904_

- Compile And Link As Needed

- Add Header With Origin Info
  And Code Version Info

Start -
Code-Let Received   _902_

Fixed Destination Enabled?   _906_   — Yes → Send Interpretable To Fixed Destination - Declare Error If Send Fails   _908_

No

Done Processing Code-Let   _910_

- Create List Of External Dependencies Needed By Code-Let   _912_

- Obtain List Of Available Destinations

Routing On Capabilities Enabled?   _914_   — Yes → Exclude Destinations Lacking Needed Capabilities   _915_

No

Preferred Destination Enabled?   _916_   — Yes → Sort Destination List By Preference   _917_

No

Load Balancing Enabled?   _918_   — Yes → Sort Destination List By Current Processing Burden   _919_

No

Set First Destination In List As Current Destination   _920_

Disqualify Current Destination

Make Next Destination In List Current Destination   _928_

Send Interpretable To Current Destination   _922_

Send Successful?   _924_   — No → More Candidate Destinations?   _926_   — Yes →

Yes

No

Done Processing Code-Let   _930_

Declare Error And Send Interpretable To Temporary Storage   _932_

FIG. 9

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Title: System, Method, and Apparatus for Sharing Common Capacit... different...
Inventors: Shah
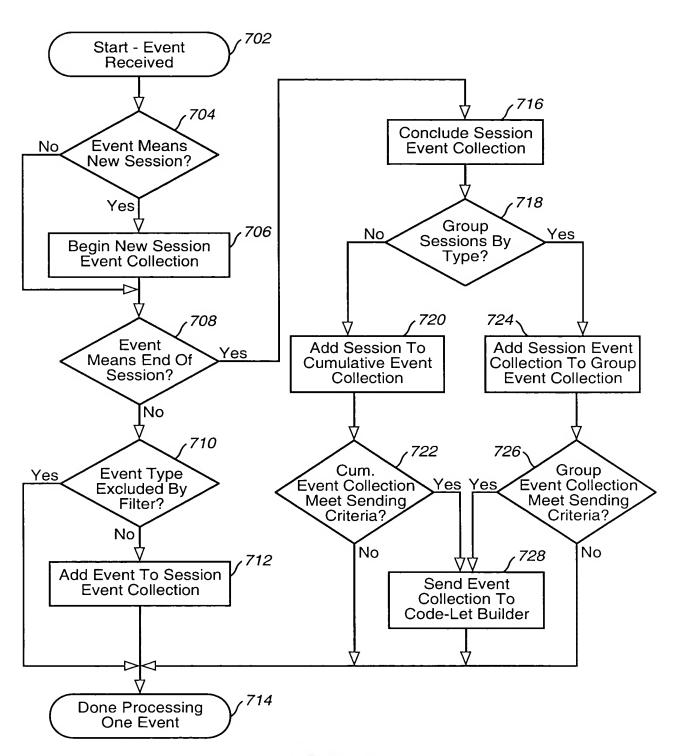Confirmation No.: Unassigned

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FIG. 10

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Title: System, Method, and Apparatus for Sharing Common Capacity Different...
Inventors: Shah
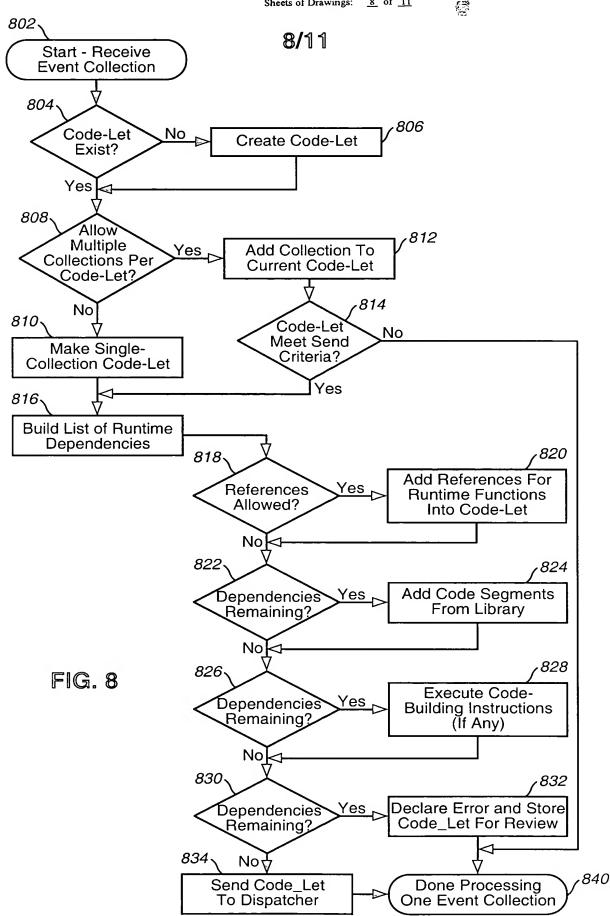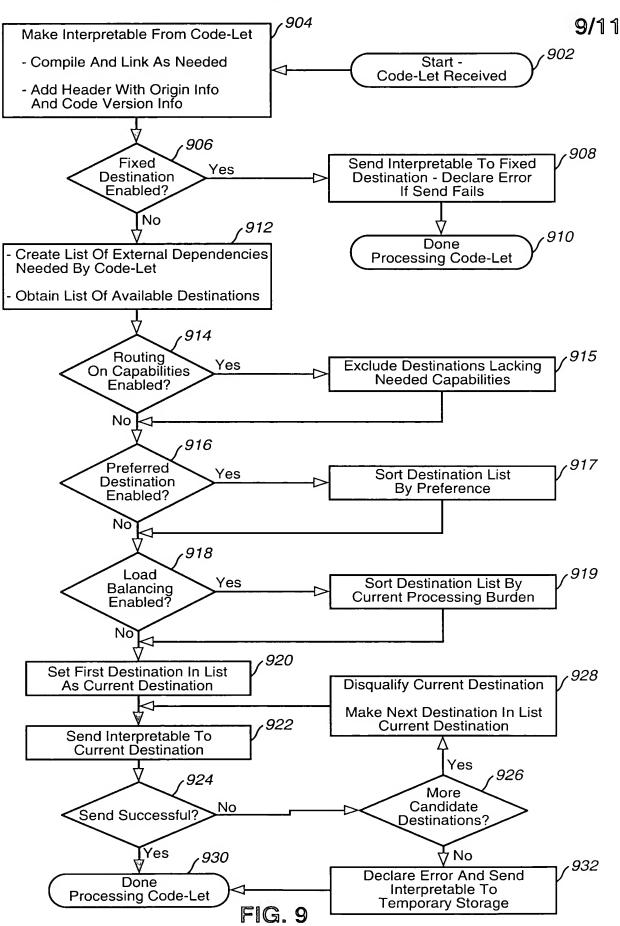Confirmation No.: Unassigned

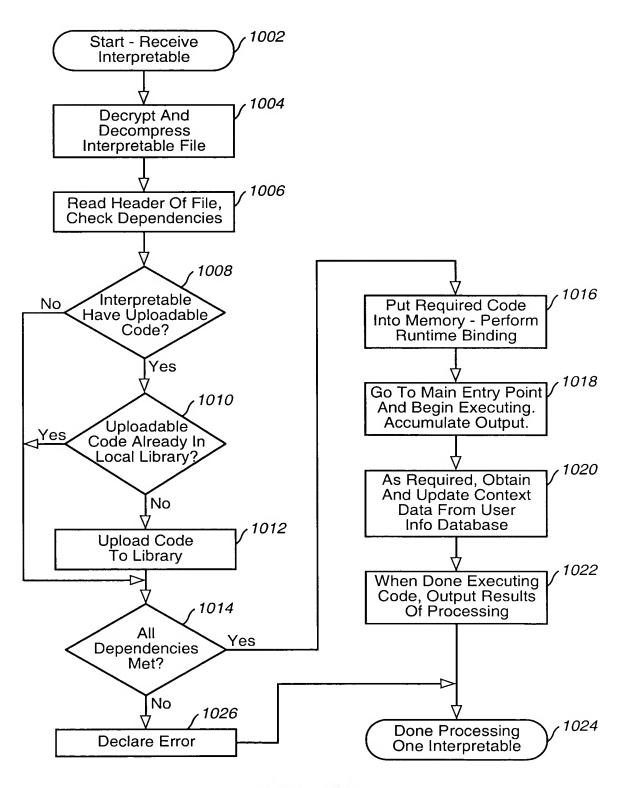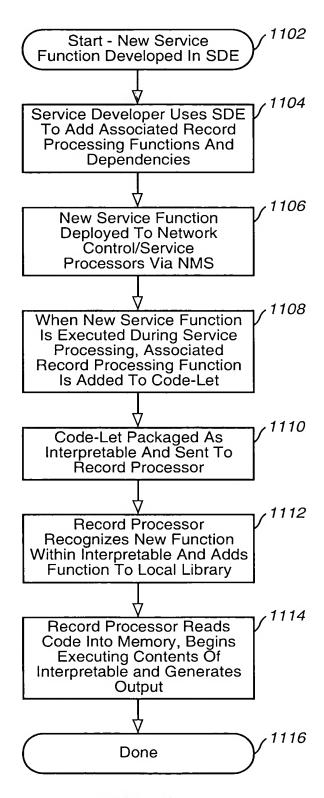Sheets of Drawings: 11 of 11

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```
        ┌──────────────────────────┐
        │   Start - New Service    │  ╱ 1102
        │  Function Developed In SDE │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │ Service Developer Uses SDE │  ╱ 1104
        │  To Add Associated Record  │
        │  Processing Functions And  │
        │       Dependencies         │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │   New Service Function    │  ╱ 1106
        │   Deployed To Network     │
        │   Control/Service         │
        │   Processors Via NMS      │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │ When New Service Function │  ╱ 1108
        │ Is Executed During Service │
        │ Processing, Associated     │
        │ Record Processing Function │
        │ Is Added To Code-Let       │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │   Code-Let Packaged As    │  ╱ 1110
        │ Interpretable And Sent To │
        │     Record Processor      │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │    Record Processor       │  ╱ 1112
        │ Recognizes New Function   │
        │ Within Interpretable And Adds │
        │ Function To Local Library │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │  Record Processor Reads   │  ╱ 1114
        │ Code Into Memory, Begins  │
        │ Executing Contents Of     │
        │ Interpretable and Generates │
        │          Output           │
        └──────────────────────────┘
                     │
                     ▼
        ┌──────────────────────────┐
        │          Done             │  ╱ 1116
        └──────────────────────────┘
```

FIG. 11